

IN THE CLAIMS:

Please cancel withdrawn claims 75-109 and 127-134 without prejudice or disclaimer. The following is a listing of all cancelled and pending claims.

Claims 1-109 (Cancelled)

110. (Currently Amended) A multi-well plate comprising a plurality of wells, wherein at least two of said wells of said multi-well plate have independently addressable electrodes centered at the bottom of said wells.

111. (Currently Amended) The multi-well plate of claim 110, wherein said ~~electrode surface~~ comprises electrodes comprise carbon.

112. (Previously Presented) The multi-well plate of claim 110, further comprising a mask having a plurality of holes sealed against said electrodes.

113. (Previously Presented) The multi-well plate of claim 110, wherein said electrodes comprise carbon.

114. (Previously Presented) The multi-well plate of claim 110, wherein said electrodes comprise particulate carbon, carbon black, carbon felts, glassy carbon, carbon fibers, carbon fibrils or combinations thereof.

115. (Currently Amended) The multi-well plate of claim 110, wherein said electrodes surfaces comprise a composite material.

116. (Previously Presented) The multi-well plate of claim 110, wherein said electrodes comprise a composite material including a polymeric material and carbon particles.

117. (Previously Presented) The multi-well plate of claim 110, wherein said electrodes are from 0.01 to 1 mm in width or diameter.

118. (Currently Amended) The multi-well plate of claim 110, further comprising at least one counter electrode ~~surface~~ within each well.

119. (Previously Presented) The multi-well plate of claim 110, further comprising electrical contacts electrically connected to said electrodes.

120. (Previously Presented) A kit comprising, in one or more containers, the multi-well plate of claim 110 and one or more reagents.

121. (Previously Presented) The kit of claim 120, wherein said one or more reagents comprise an electrochemiluminescent label.

122. (Previously Presented) The kit of claim 120, wherein said one or more reagents comprise an electrochemiluminescent label comprising a metal-containing organic compound, wherein the metal is selected from the group consisting of ruthenium, osmium, rhenium, iridium, rhodium, platinum, palladium, molybdenum, technetium and tungsten.

123. (Previously Presented) The kit of claim 120, wherein said one or more reagents comprise an electrochemiluminescent label comprising a Ru- or Os-containing organic compound.

124. (Previously Presented) An apparatus comprising a light detector and the multi-well plate of claim 110.

125. (Currently Amended) The apparatus of claim 124, further comprising electrical connectors capable of providing electrical energy to said ~~working~~ electrodes.

126. (Currently Amended) The apparatus of claim 124, wherein said light detector is capable of scanning electrochemiluminescence signals emitted from said ~~binding domains~~ wells.

Please add new claims 135-177:

135. (New) A multi-well plate comprising a plurality of wells in a standard multi-well format, wherein at least two of said wells of said multi-well plate have independently addressable electrodes centered at the bottom of said wells.

136. (New) A multi-well plate comprising a plurality of wells, wherein at least two of said wells of said multi-well plate have independently addressable electrodes centered at the bottom of said wells and at least one counter electrode and further comprising a mask having a plurality of holes sealed against said electrodes.

137. (New) A multi-well plate comprising a plurality of wells, wherein at least two of said wells of said multi-well plate have independently addressable electrodes centered at the bottom of said wells and further comprising electrical contacts electrically connected to said electrodes.

138. (New) The multi-well plate of claim 135, wherein said electrodes comprise carbon.

139. (New) The multi-well plate of claim 136, wherein said electrodes comprise carbon.

140. (New) The multi-well plate of claim 137, wherein said electrodes comprise carbon.

141. (New) The multi-well plate of claim 135, further comprising a mask having a plurality of holes sealed against said electrodes.

142. (New) The multi-well plate of claim 137, further comprising a mask having a plurality of holes sealed against said electrodes.

143. (New) The multi-well plate of claim 135, wherein said electrodes comprise particulate carbon, carbon black, carbon felts, glassy carbon, carbon fibers, carbon fibrils or combinations thereof.

144. (New) The multi-well plate of claim 136, wherein said electrodes comprise particulate carbon, carbon black, carbon felts, glassy carbon, carbon fibers, carbon fibrils or combinations thereof.

145. (New) The multi-well plate of claim 137, wherein said electrodes comprise particulate carbon, carbon black, carbon felts, glassy carbon, carbon fibers, carbon fibrils or combinations thereof.
146. (New) The multi-well plate of claim 135, wherein said electrodes comprise a composite material.
147. (New) The multi-well plate of claim 136, wherein said electrodes comprise a composite material.
148. (New) The multi-well plate of claim 137, wherein said electrodes comprise a composite material.
149. (New) The multi-well plate of claim 135, wherein said electrodes comprise a composite material including a polymeric material and carbon particles.
150. (New) The multi-well plate of claim 136, wherein said electrodes comprise a composite material including a polymeric material and carbon particles.
151. (New) The multi-well plate of claim 137, wherein said electrodes comprise a composite material including a polymeric material and carbon particles.
152. (New) The multi-well plate of claim 135, wherein said electrodes are from 0.01 to 1 mm in width or diameter.
153. (New) The multi-well plate of claim 136, wherein said electrodes are from 0.01 to 1 mm in width or diameter.
154. (New) The multi-well plate of claim 137, wherein said electrodes are from 0.01 to 1 mm in width or diameter.
155. (New) The multi-well plate of claim 135, further comprising at least one counter electrode within each well.

156. (New) The multi-well plate of claim 137, further comprising at least one counter electrode within each well.

157. (New) The multi-well plate of claim 135, further comprising electrical contacts electrically connected to said electrodes.

158. (New) The multi-well plate of claim 136, further comprising electrical contacts electrically connected to said electrodes.

159. (New) The multi-well plate of claim 110, wherein said multi-well plate has a standard form for multi-well microtiter plates.

160. (New) The multi-well plate of claim 136, wherein said multi-well plate has a standard form for multi-well microtiter plates.

161. (New) The multi-well plate of claim 137, wherein said multi-well plate has a standard form for multi-well microtiter plates.

162. (New) The multi-well plate of claim 110, wherein said multi-well plate is a 24-well, a 96-well or 384-well plate.

163. (New) The multi-well plate of claim 135, wherein said multi-well plate is a 24-well, a 96-well or 384-well plate.

164. (New) The multi-well plate of claim 136, wherein said multi-well plate is a 24-well, a 96-well or 384-well plate.

165. (New) The multi-well plate of claim 137, wherein said multi-well plate is a 24-well, a 96-well or 384-well plate.

166. (New) The multi-well plate of claim 110, further comprising an electrochemiluminescent label.

167. (New) The multi-well plate of claim 135, further comprising a electrochemiluminescent label.

168. (New) The multi-well plate of claim 136, further comprising a electrochemiluminescent label.

169. (New) The multi-well plate of claim 137, further comprising a electrochemiluminescent label.

170. (New) A kit comprising, in one or more containers, the multi-well plate of claim 135 and one or more reagents.

171. (New) The kit of claim 170, wherein said one or more reagents comprise an electrochemiluminescent label.

172. (New) The kit of claim 170, wherein said one or more reagents comprise an electrochemiluminescent label comprising a metal-containing organic compound, wherein the metal is selected from the group consisting of ruthenium, osmium, rhenium, iridium, rhodium, platinum, palladium, molybdenum, technetium and tungsten.

173. (New) The kit of claim 170, wherein said one or more reagents comprise an electrochemiluminescent label comprising a Ru- or Os-containing organic compound.

174. (New) An apparatus comprising a light detector and the multi-well plate of claim 135.

175. (New) The apparatus of claim 174, further comprising electrical connectors capable of providing electrical energy to said electrodes.

176. (New) The apparatus of claim 174, wherein said light detector is capable of scanning electrochemiluminescence signals emitted from said wells.

177. (New) A method for detecting or measuring an analyte in an electrochemiluminescence assay using the multi-well plate of claim 110 comprising applying electrical energy to said electrodes and detecting or measuring electrochemiluminescence from said wells.